

No.

9800215

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

D&P Technology Holding Company, LLC.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 U.S.C. 2321 ET SEQ.)

SOYBEAN

'DP 7220 RR'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this tenth day of August, in the year two thousand and four.

Attest:

[Signature]

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]

Secretary of Agriculture

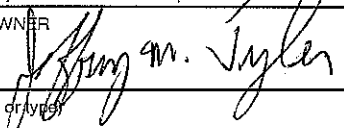
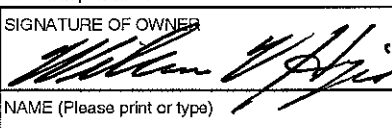
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER D&PL Technology Holding Company, LLC.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 95-01385 DPX 8S74 RR		3. VARIETY NAME DP 7220 RR	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) PO Box 157 100 Main Street Scott, Mississippi 38772 USA		5. TELEPHONE (include area code) (662) 742-4141		PVPO NUMBER 9800215	
		6. FAX (include area code) (662) 742-3182		FILING DATE 24 April, 1998	
7. IF THE OWNER IS NOT A "PERSON" GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Limited Liability Company		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		9. DATE OF INCORPORATION February 29, 1996	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Delta and Pine Land Company Kelly Casavechia P.O. Box 157 Scott, MS 38772				FILING AND EXAMINATION FEE: \$ 2,450.00 DATE 24 April, 1998 CERTIFICATION FEE: \$ 432.00 DATE 7-8-04	
11. TELEPHONE (include area code) (662) 742-4141		12. FAX (include area code) (662) 742-3182		13. E-MAIL kelly.h.casavechia@deltaandpine.com	
14. CROP KIND (Common Name) Soybean					
15. GENUS AND SPECIES NAME OF CROP Glycine Max		16. FAMILY NAME (Botanical) LEGUMINOSAE		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse). a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (if "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (if "no", go to item 22)		
			20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO		
			21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCE FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO - As of date of original application - 4/21/98 IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNEE REFERENCE NUMBER. (Please use space indicated on reverse.)		
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 			SIGNATURE OF OWNER 		
NAME (Please print or type) Jeffrey M. Tyler			NAME (Please print or type) William V. Hugie		
CAPACITY OR TITLE Soybean Breeder		DATE 02-04-2004		CAPACITY OR TITLE Vice President/Director of Research	
				DATE 02-05-04	

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (*See Section 97.6 of the Regulations and Rules of Practice* .) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office
Telephone: (301) 504-5518
FAX: (301) 504-5291
Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieites, lines, or clones used, and the breeding method
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) Identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, *etc.*
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (*See Regulations and Rules of Practice, Section 97.103*).
22. *See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.*
23. *See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.*

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

ROUNDUP READY[®] cotton: Soybean (per applicant's authorization 10 Feb., 2004 BT).

These seeds are covered under U.S. Patents 5,633,435; 5,352,605; 5,530,196; 5,188,642; 4,940,835; 5,717,084; 5,728,925; and 5,804,425.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (*See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.*)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed/lsg-sd.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U. S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-8410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T -470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete.

EXHIBIT A
D&PL Technology Holding Company, LLC.
Application for DP 7220 RR

Experimental Designation: DPX 8S74 RR
PV# 9800215

ORIGIN AND BREEDING HISTORY

Winter-		
Summer1992		Original cross and first backcross made between DPX 2384, an experimental breeding line and Roundup Resistant experimental line 40-3-2
Fall	1992	DPX 3541 crossed with Roundup resistant F ₁ plants from 2384 BC ₁ F ₁
Winter	1993	TN6-90 crossed to Roundup resistant F ₁ plants from DPX 3541 x 2384 BC ₁ F ₁
Summer1993		Cross 93269 made - CM428 crossed to Roundup resistant F ₁ plants from TN6-90 x (DPX 3541 x 2384 BC ₁ F ₁)
Winter	1993-94	Roundup tolerant F ₁ plants advanced to F ₂ under lights from cross 93269 under lights in Costa Rica and F ₂ seed was bulked.
Summer-		
Fall	1994	Roundup resistant F ₂ advanced to F ₄ by modified single seed descent in Costa Rica
Winter	1994-95	Roundup resistant F ₄ plants space planted. Individual plant selections harvested and threshed separately in Costa Rica.
Summer1995		F ₄ Roundup resistant plant rows from cross 93269 were grown in 7 foot rows in Scott, MS. Row 95-01385 was selected based on apparent yield, and determined to be stable and breeding true for characteristics described in "Exhibit C" of this application. No variants were known or observed at that time.
Summer1996		Yield tested at Scott, MS. 95-01385 was advanced based on measured seed yield
Fall	1996-	
Winter	1997	Border rows harvested and sent to Costa Rica for an increase. About 5 units of breeder seed were produced.
Summer1997		95-01385 yield tested in 5 Deltapine Seed tests and increased to 215 bushels foundation seed.
	1998	Designated as DPX 8S74 RR. Further increased and evaluated in 7 Deltapine trials across the Midsouth and Southeast as well as in State AES trials.
	1999	DPX 8S74RR has been observed stable and uniform for five generations, for characteristics described in "Exhibit C" of this application.

9800215

EXHIBIT B

DP Technology Holding Company, LLC.'s 'DP 7220 RR'
~~DELTA PINE SEEDS~~ APPLICATION FOR ~~DPX 8S74 RR~~
(BT: 4/15/2004)

NOVELTY STATEMENT

'DP 7220 RR' (BT: 4/15/2004)

To our knowledge, ~~DPX 8S74 RR~~ most resembles DP 7375 RR and Haskell. Differences include, but are not restricted to the following:

'DP 7220 RR' (BT: 4/15/2004)

- 1) ~~DPX 8S74 RR~~ has brown pods whereas DP 7375 RR and Haskell have tan pods.
- 2) ~~DPX 8S74 RR~~ has a dull seed coat whereas DP 7375 RR and Haskell have shiny seed coats.

(BT: 4/15/2004)

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KELL 4.12

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (*Glycine max* L)

Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g.,

0	9
---	---

). Starred characters ★ are considered fundamental to an adequate soybean variety description. Other characters should be described when information is available.

2 = Spherical Flattened (L/W ratio > 1.2 ; L/T ratio < 1.2)
4 = Elongate Flattened (L/T ratio > 1.2 ; $T/W > 1.2$)

5 - Other (Specify)

2 - Shiny (Nebcoy; Gray 17)

Grams per 100 seeds

7. Other (Specify) _____

2 - Green

2 - flüchtig

2 - Type 8 (SP1b)

4 - Dark Purple extending to unifoliate leaves ("Hodgson": "Coker Hampton 266A")

4 - Other (Specify)

11. LEAFLET SIZE:

☐ 1 - Small ('Amsoy 71'; 'AS312')
☒ 2 - Large ('Crawford'; 'Tracy')

2 - Medium ('Corsoy 79'; 'Gasoy 17')

12. LEAF COLOR:

☐ 1 - Light Green ('Weber'; 'York')
☒ 2 - Dark Green ('Gnome'; 'Tracy')

2 - Medium Green ('Corsoy 79'; 'Braxton')

★ 13. FLOWER COLOR:

1 ☒ 1 - White 2 - Purple 3 - White with purple throat
 (BT:4/15/2004)

★ 14. POD COLOR:

☒ 1 - Tan 2 - Brown 3 - Black

★ 15. PLANT PUBESCENCE COLOR:

☒ 1 - Gray 2 - Brown (Tawny), Light Tawny

16. PLANT TYPES:

☒ 1 - Slender ('Essex'; 'Amsoy 71') 2 - Intermediate ('Amcor'; 'Braxton')
 3 - Bushy ('Gnome'; 'Govan')

★ 17. PLANT HABIT:

☒ 1 - Determinate ('Gnome'; 'Braxton') 2 - Semi-Determinate ('Will')
 3 - Indeterminate ('Nebsoy'; 'Improved Pelican')

★ 18. MATURITY GROUP:

☒ 1 0 1 - 000 2 - 00 3 - 0 4 - I 5 - II 6 - III 7 - IV 8 - V
 9 - VI 10 - VII 11 - VIII 12 - IX 13 - X

★ 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

BACTERIAL DISEASES:

★ ☒ 2 Bacterial Pustule (*Xanthomonas phaseoli* var. *sojensis*)

★ ☐ 0 Bacterial Blight (*Pseudomonas glycines*)

★ ☐ 0 Wildfire (*Pseudomonas tabaci*)

FUNGAL DISEASES:

★ ☐ 0 Brown Spot (*Septoria glycines*)

Frogeye Leaf Spot (*Cercospora sojae*)

★ ☐ Race 1 ☐ Race 2 ☐ Race 3 ☐ Race 4 ☐ Race 5 ☒ Other (Specify) Race Unknown

☐ 0 Target Spot (*Corynespora cassiicola*)

☐ 0 Downy Mildew (*Peronospora trifoliorum* var. *manshurica*)

☐ 0 Powdery Mildew (*Microsphaera diffusa*)

★ ☐ 0 Brown Stem Rot (*Cephalosporium gregatum*)

☒ 2 Stem Canker (*Diaporthe phaseolorum* var. *caulivora*)

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19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) (Continued)

FUNGAL DISEASES: (Continued)

- ★ ☐ 0 Pod and Stem Blight (*Diaporthe phaseolorum* var. *sojae*)
- ☐ 0 Purple Seed Stain (*Cercospora kikuchii*)
- ☐ 0 Rhizoctonia Root Rot (*Rhizoctonia solani*)
- Phytophthora Rot (*Phytophthora megasperma* var. *sojae*)
- ★ ☐ 1 Race 1 ☐ Race 2 ☐ Race 3 ☐ Race 4 ☐ Race 5 ☐ Race 6 ☐ Race 7
- ☐ Race 8 ☐ Race 9 ☐ Other (Specify) _____

9800215

VIRAL DISEASES:

- ☐ 0 Bud Blight (Tobacco Ringspot Virus)
- ☐ 0 Yellow Mosaic (Bean Yellow Mosaic Virus)
- ★ ☐ 0 Cowpea Mosaic (Cowpea Chlorotic Virus)
- ☐ 0 Pod Mottle (Bean Pod Mottle Virus)
- ★ ☐ 0 Seed Mottle (Soybean Mosaic Virus)

NEMATODE DISEASES:

- Soybean Cyst Nematode (*Heterodera glycines*)
- ★ ☐ Race 1 ☐ Race 2 ☐ 1 Race 3 ☐ Race 4 ☐ 1 Other (Specify) Race 14
- ☐ 0 Lance Nematode (*Hoplolaimus Colonus*)
- ★ ☐ 1 Southern Root Knot Nematode (*Meloidogyne Incognita*)
- ★ ☐ 0 Northern Root Knot Nematode (*Meloidogyne Hapti*)
- ☐ 1 Peanut Root Knot Nematode (*Meloidogyne arenaria*)
- ☐ 0 Reniform Nematode (*Rotylenchulus reniformis*)
- ☐ 0 OTHER DISEASE NOT ON FORM (Specify): _____

20. PHYSIOLOGICAL RESPONSES: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

- ★ ☐ 0 Iron Chlorosis on Calcareous Soil
- ☐ 0 Other (Specify) _____

21. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

- ☐ 0 Mexican Bean Beetle (*Epilachna varivestis*)
- ☐ 2 Potato Leaf Hopper (*Empoasca fabae*)
- ☐ 0 Other (Specify) _____

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant Shape	Haskell	Seed Coat Luster	CM 428
Leaf Shape	DP 7375 RR	Seed Size	Haskell
Leaf Color	DP 7375 RR	Seed Shape	DP 7375 RR
Leaf Size	DP 7375 RR	Seedling Pigmentation	DP 7375 RR

2. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY (Paired Comparison Data)

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100 SEEDS	NO. SEEDS/POD
				CM Width	CM Length	% Protein	% Oil		
DPX 8S74 RR Submitted	155	1.5	76					14	
DP 7375 RR Name of Similar Variety	157	1.8	74					13	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

1. Caldwell, B.E. ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
2. Buttery, B.F. and R.J. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci. 8: 722-725.
3. Hymowitz, T. 1973. Electrophoretic analysis of SBTi-A₂ in the USDA soybean germplasm collection. Crop Sci. 13: 420-421.
4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

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EXHIBIT D

~~DBPL Technology Holding Company, LLC's~~ 'DP 7220 RR' (BT: 4/15/2004)
~~DELTA PINE SEED'S APPLICATION FOR~~ DPX 8S74 RR
 (BT: 2/10/2004)

ADDITIONAL DESCRIPTION OF VARIETY

'DP 7220 RR' (BT: 4/15/2004)

< DPX 8S74 RR is an F₄ Roundup tolerant selection composited in the F₅ generation from the cross of CM 428 with the F₁ of TN6-90 x [DPX 3541 x (2384 (2) x 40-3-2)]. It has ~~purple~~ ^{white} flowers, light tawny pubescence and brown pods. Seeds average 3200 per pound and are ~~shiny~~ ^{dull} yellow. ~~DPX 8S74 RR~~ ^{DP 7220 RR} is resistant to stem canker and is ~~field tolerant~~ ^{susceptible} to phytophthora root rot. It is susceptible to cyst nematodes, root knot nematodes and frog-eye leaf spot.

(per applicant's
confirmation
BT: 4/15/2004)

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DP 7220 RR

PRODUCT SUMMARY SHEET

KEY FEATURES

Very good yield potential
Adapted to both the Midsouth and Southeast
Resistant to stem canker

PRODUCT DESCRIPTION

Trait	Phenotype
Relative maturity	7.2
Roundup Ready™	Yes
STS®	No
Flower color	White ^{Correct color = "White"} Purple (4/15/2004 BT per applicant's authorization)
Pubescence color	Light tawny
Hilum color	Black
Podwall color	Tan ^{"Brown"} (4/15/2004 per applicant's authorization - BT)
Seed size	3300/lb
Seed protein	35.0%
Seed oil	19.3%
Peroxidase reaction	Positive
Seedcoat luster	Shiny ^{"Dull"} (4/15/2004 BT per applicant's authorization)
Hypocotyl color	Purple
Seed shape	Spherical flattened
Leaflet size	Medium
Leaflet color	Medium green
Canopy	Closed
Growth habit	Determinate
SCN race 3	Susceptible
SCN race 14	Susceptible
Common root knot	Susceptible
Peanut root knot	Susceptible
Javanese root knot	Untested
Lance nematode	Untested
Frogeye leafspot	Moderately susceptible
Sudden death	Untested
Stem canker	Resistant
Phytophthora root rot	Untested ^{Susceptible} (4/15/2004 BT per applicant's authorization)
Red crown rot	Untested
Chloride tolerance	Untested
Aerial Blight	Susceptible

BREEDER'S SUBJECTIVE RATINGS

Field emergence	Excellent
Early vigor	Good
Narrow rows	Good
Wide rows	Excellent
No-till	Excellent
Late planting	Excellent
Poorly-drained soils	Good
Shatter resistance	Excellent

PRODUCT IDENTITY

Line selected by: Dr. Grover Shannon
Former designation: 95-01385, DPX 8S74 RR
Pedigree: DP 3478*(TN6-90*(DPX 3541*RRBC))
DPX 3541 selected from DPL415*A5980
Areas of adaptation: Midsouth and Southeast
Replace: DP 7375 RR
Complement: DP 6880 RR
Main competition: H7550 RR, S73-Z5
Most similar line: DP 7375 RR

YIELD HISTORY

Outyielded DP 7375 RR by 5% in 9 Midsouth trials
Outyielded DP 7375 RR by 14% in 7 Southeast trials
Yield rank was 2/12 over 5 locations in 1999
Yield rank was 5/12 over 6 locations in 1998
Yield rank was 17/48 over 5 location in 1997

KNOWN WEAKNESSES

Susceptible to cyst and root knot nematodes
Susceptible to frogeye leafspot

SEED STOCK STATUS

1,800 units of breeder seed at GFS

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paper Reduction Act (PRA) of 1995.

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) D&PL Technology Holding Corp. <i>Company, LLC.</i> (BT: 2/10/2004)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER DPX 8S74 RR	3. VARIETY NAME DP 7220 RR
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. Box 157 Scott, Mississippi 38772 USA	5. TELEPHONE (Include area code) 662-742-4141	6. FAX (Include area code) 662-742-3182
7. PVPO NUMBER 9800215		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block.
If no, please explain.☒ YES☐ NO9. Is the applicant (individual or company) a U.S. National or a U.S. based company?
If no, give name of country☒ YES☐ NO

10. Is the applicant the original owner?

☒ YES☐ NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐

YES

☐

NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐

YES

☐

NO

If no, give name of country

11. Additional explanation on ownership (if needed, use the reverse for extra space):

DP 7220 RR contains a proprietary gene, patented by the Monsanto Company and licensed to D&PL, which encodes a protein which provides tolerance to glyphosate herbicide in soybean cultivars.

Please Note:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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9800215

EXHIBIT E

D&PL Technology Holding Company, LLC.'s 'DP 7220 RR'
- DELTAPINE SEED'S APPLICATION FOR <DPX 8S74 RR>
(BT: 2/10/2004) (BT: 4/15/2004)

STATEMENT OF APPLICANT'S OWNERSHIP

'DP 7220 RR' (BT: 4/15/2004)
<DPX 8S74 RR> was originated and developed by Grover Shannon, Ph.D. and Christopher Tinius, Ph.D., soybean breeders, ~~D&PL Technology Holding Company, LLC. (BT: 2/10/2004)~~ Delta and Pine Land Company, dba Deltapine Seed.. By agreement between employees and ~~D&PL Technology Holding Company, LLC. (BT: 2/10/2004)~~ Delta and Pine Land Company, all rights to any invention or discovery made by an employee are assigned to the company. No rights to such an invention or discovery are retained by the employee.

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nedg. 11/11/04
DEPT. 11/11/04